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AMSAT NEWS SERVICE
ANS-162

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The AMSAT News Service bulletins are a free, weekly news and information service of AMSAT, the Radio Amateur Satellite Corporation. ANS publishes news related to Amateur Radio in Space including reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

The news feed on http://www.amsat.org publishes news of Amateur Radio in Space as soon as our volunteers can post it.

Please send any amateur satellite news or reports to: ans-editor [at] amsat [dot] org.

You can sign up for free e-mail delivery of the AMSAT News Service Bulletins via the ANS List; to join this list see: https://mailman.amsat.org/postorius/lists/ans.amsat.org/

ANS-162 AMSAT News Service Weekly Bulletins

To: All RADIO AMATEURS
From: Radio Amateur Satellite Corporation
712 H Street NE, Suite 1653
Washington, DC 20002

DATE 2023 Jun 11

## June 15 is Deadline for 2023 AMSAT Board of Directors Election Nominations

AMSAT solicits nominations for the 2023 AMSAT Board of Directors election, to be held in the third quarter of the year. The seats of the following four incumbent Directors expire in 2023 and will be filled by this year’s election:

– Jerry Buxton, N0JY
– Joseph Armbruster, KJ4JIO
– Robert Bankston, KE4AL
– Zach Metzinger, N0ZGO

Further, up to two Alternate Directors may be elected for one-year terms. A valid nomination for Director must be written and requires either one Member Society or five current individual members in good standing to nominate an AMSAT member. Written nominations, with the nominee’s name, call sign, and contact information, as well as the nominators’ names, call signs, and contact information, should be sent to the AMSAT Secretary:

Jeff Davis, KE9V
PO Box 11

Yorktown, IN 47396

AMSAT bylaws require that the nomination be written and in the form specified by the Secretary who has elected to accept written nomination materials via mail or in electronic form, including email or electronic image of a paper document. Fax transmissions cannot be accepted.

Email nominations may be sent to jdavis [at] amsat [dot] org.

No matter what means are used, petitions MUST be received by the Secretary no later than June 15, 2023. The Secretary will verify the qualifications of candidates and nominating members or Member Societies as petitions are received, and will notify candidates whether their nominations are in order by the end of June.

[ANS thanks Jeff Davis, KE9V, AMSAT Secretary for the above information.]

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An RTL-SDR Telemetry Decoder for the Soon-to-be-Launched MRC-100 CubeSat

The MRC-100 Hungarian CubeSat is scheduled to launch on a Falcon 9 on June 12 from Vandenburg Space Fore Base. The MRC-100 is the successor to the SMOG-1 CubeSat which was launched in March 2021. The satellite is named to honoring the 100th year anniversary of the HA5MRC Ham Radio Club at the Budapest University of Technology.

To help with decoding the Telemetry on the CubeSat, an RTL-SDR based telemetry receiver was created and an installation script for Raspberry Pi's and Linux PC's which installs OpenWebRX along with the satellite receiver software.

The satellite should be receivable with a simple satellite antenna, such as a handheld Yagi, Turnstile, Dipole or quadrifilar-helix antenna. It will be transmitting telemetry at 436.720 MHz. If you have a dish and tracking equipment for it, there is also a high speed downlink at 2267.5 MHz. Like the original SMOG-1, the satellite carries a sensor that is designed to measure human caused electromagnetic pollution. It also carries a camera and an AIS receiver for tracking marine vessels. More information is available at https://www.rtl-sdr.com/.

[ANS thanks rtl-sdr.com for the above information.]

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The crewmember was Andrey Fediaev.
The ARISS mentor was RV3DR.
Contact was successful Sunday, June 4, 2023.

The latest information on the operation mode can be found at
https://www.ariss.org/current-status-of-iss-stations.html

The latest list of frequencies in use can be found at https://www.ariss.org/contact-the-iss.html

[ANS thanks Charlie Sufana, AJ9N, one of the ARISS operation team mentors for the above information.]

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Upcoming Satellite Operations

IN90; June 9-11, 2023
Philippe, EA4NF will be activating the rare grid IN90 in Spain on June 9-11, 2023 on FM and linear LEO satellites. Further details on Twitter @EA4NF_SAT.LoTW confirmations will be issued with the call EA4NF/P

[ANS thanks Ian Parsons, K5ZM, AMSAT rover page manager, for the above information.]

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Hamfests, Conventions, Maker Faires, and Other Events

AMSAT Ambassadors provide presentations, demonstrate communicating through amateur satellites, and host information tables at club meetings, hamfests, conventions, maker faires, and other events.

+ AMSAT 2023 Field Day
  June 24, 1800 UTC - June 25, 2100 UTC, 2023
  More information at: https://www.amsat.org/field-day/.

+ Small Satellite Conference
  August 5-10, 2023
  Utah State University, Logan, UT
  More information at: https://smallsat.org/.

+ AMSAT Space Symposium and Annual General Meeting
  October 20-21, 2013
  Dallas, Texas
  More information to follow.

+ AMSAT Ambassador Clint Bradford, K6LCS, says,
“Think a 75-minute presentation on “working the easy satellites” would be appropriate for your club or event? Let me know by emailing me at k6lcsclint (at) gmail (dot) com or calling me at 909-999-SATS (7287)!” Clint has NEVER given the exact same show twice: EACH of the 150+ presentations so far has been customized/tailored to their audiences.

[ANS thanks Clint Bradford, K6LCS, and AMSAT for the above information.]

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Satellite Shorts From All Over

+ Alan Johnston, KU2Y, AMSAT VP-Educational Relations, was interviewed by Eric Guth, 4Z1UG / WA6IGR, on QSO Today Amateur Radio Podcast. Alan  tells how he reaches out to educate the general public about the world  amateur satellites, and satellite technology using CubeSatSim, for live classroom simulations of satellite communications. Alan also explains how he turns to high-altitude balloon launches as a practical, hands-on approach to bringing amateur payloads closer to space, thereby affording opportunities for tangible experience and simulation. Listen to Alan's interview at https://tinyurl.com/ANS-162-KU2Y. [ANS thanks Alan Johnston, KU2Y, AMSAT VP-Educational Relations, for the above information.]

+ Over on his latest video, Matt, from the TechMinds YouTube channel shows us how to receive and decode the packets from the GreenCube digipeater. In his demonstration Matt uses an SDRPlay RSPdx as the receiver, SDR++ as the receiver software, SoundModem as the packet decoder, GreenCube Terminal for displaying the messages, and GPredict for tracking the satellite and compensating for the Doppler effect. He also notes that while a directional antenna on a motorized tracker is recommended, he was able to still receive packets with his omnidirectional terrestrial antennas without much issue. Watch the video at https://youtu.be/Rr87Ci96SRY. [ANS thanks rtl-sdr.com for the above information.]

+ NASA is worried that SpaceX's giant new Starship vehicle won't be ready to carry astronauts to the surface of the moon in late 2025, as currently planned. In 2021, the agency selected Starship — the biggest and most powerful rocket ever built — to be the first crewed lunar lander for its Artemis program of moon exploration. Starship will put astronauts down near the ice-rich lunar south pole on the Artemis 3 mission, in humanity's first return to the moon since the Apollo program ended in 1972. Artemis 3 is currently targeted to lift off in December 2025, but it's unlikely Starship will be able to meet that timeline, NASA officials said. More information at https://www.space.com/spacex-starship-problems-delay-artemis-3-2026. [ANS thanks space.com for the above information.]

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Join AMSAT today at https://launch.amsat.org/

In addition to regular membership, AMSAT offers membership to:

* Societies (a recognized group, clubs or organization).
* Primary and secondary school students are eligible for membership at one-half the standard yearly rate.
* Post-secondary school students enrolled in at least half time status shall be eligible for the student rate for a maximum of 6 post-secondary years in this status.
* Memberships are available for annual and lifetime terms.

Contact info [at] amsat.org for additional membership information.

73 and remember to help Keep Amateur Radio in Space!

This week's ANS Editor, Frank Karnauskas, N1UW
n1uw [at] amsat [dot] org